

Fig 1

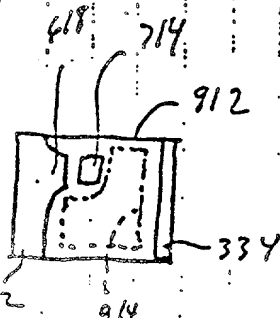


Fig 9

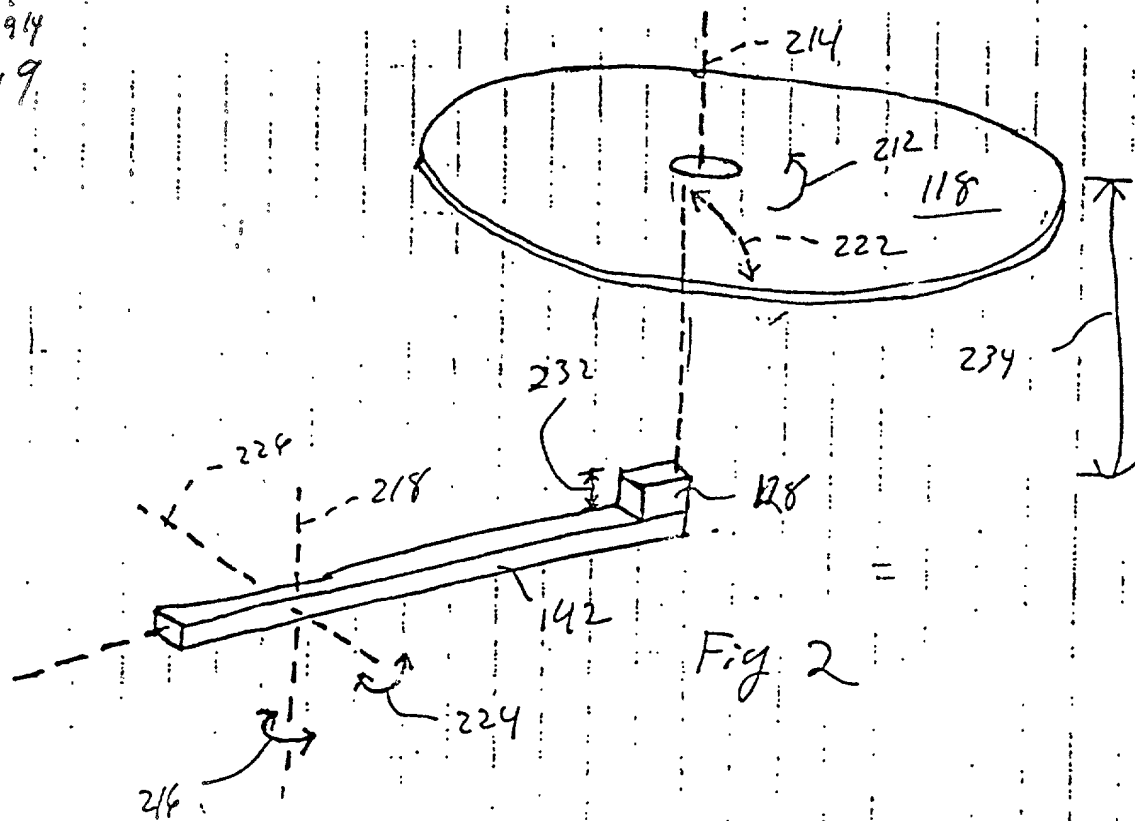


Fig 2

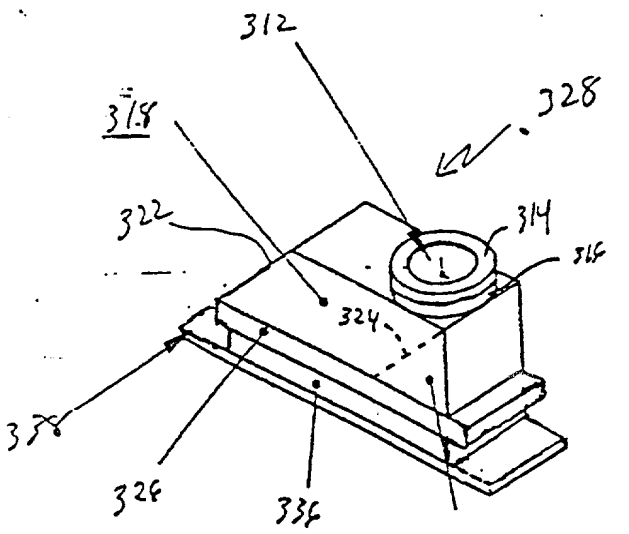


Fig 3

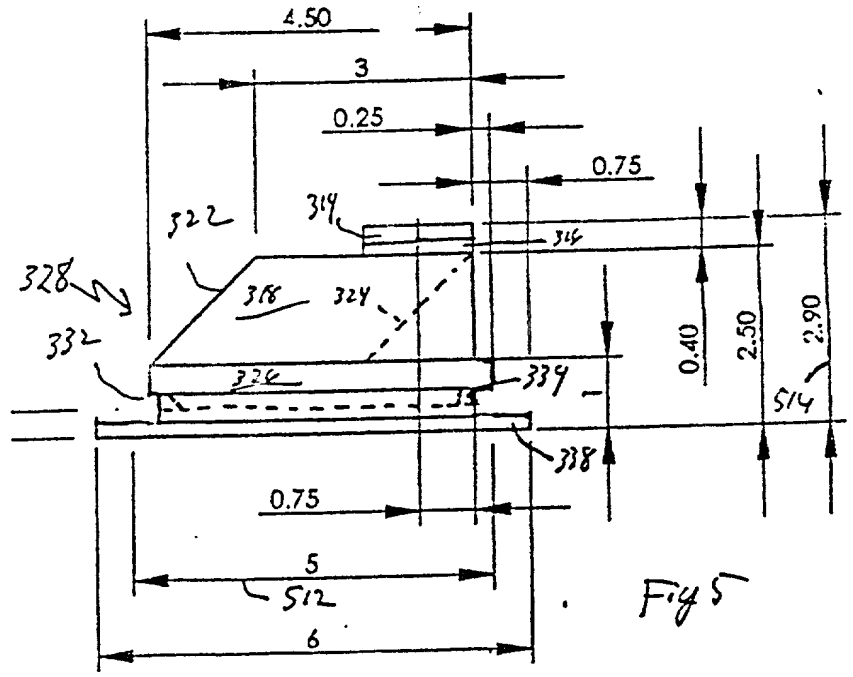


Fig 5

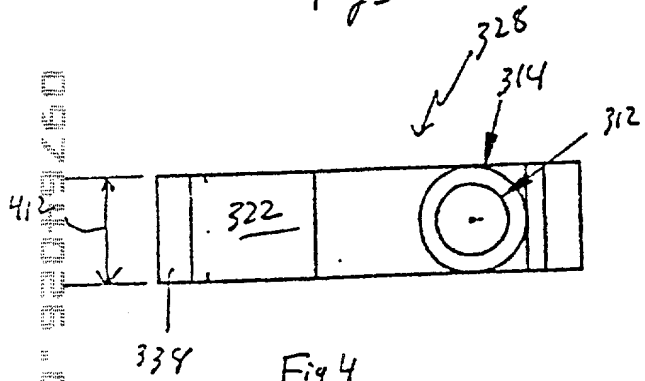


Fig 4

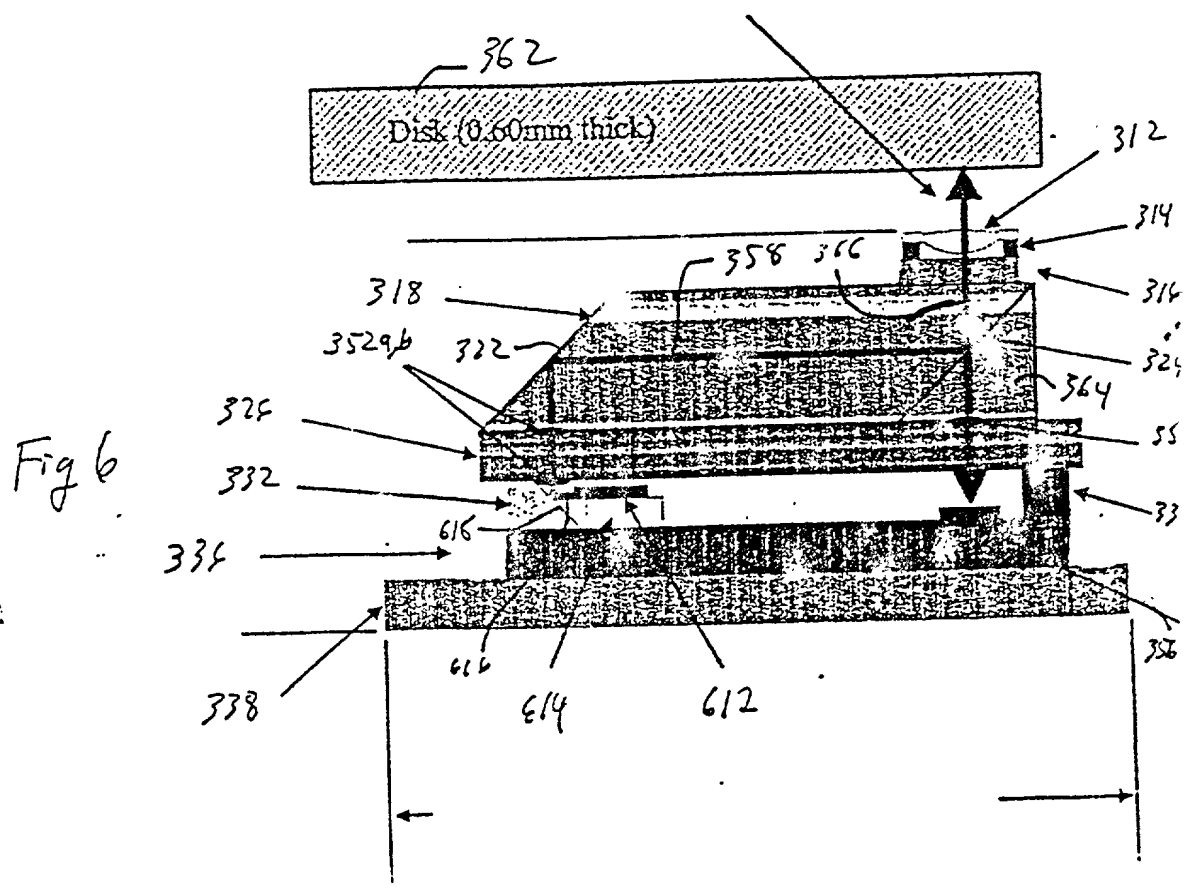
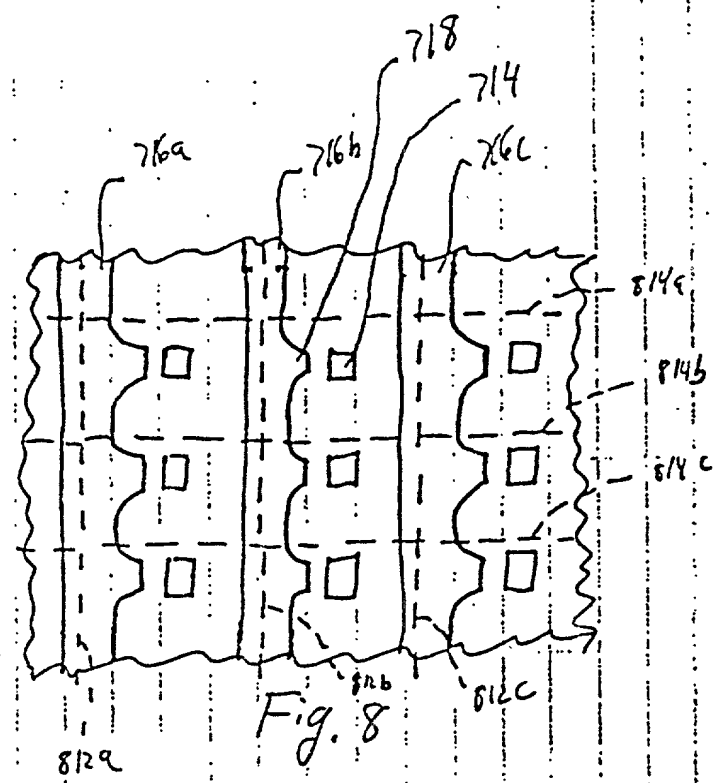
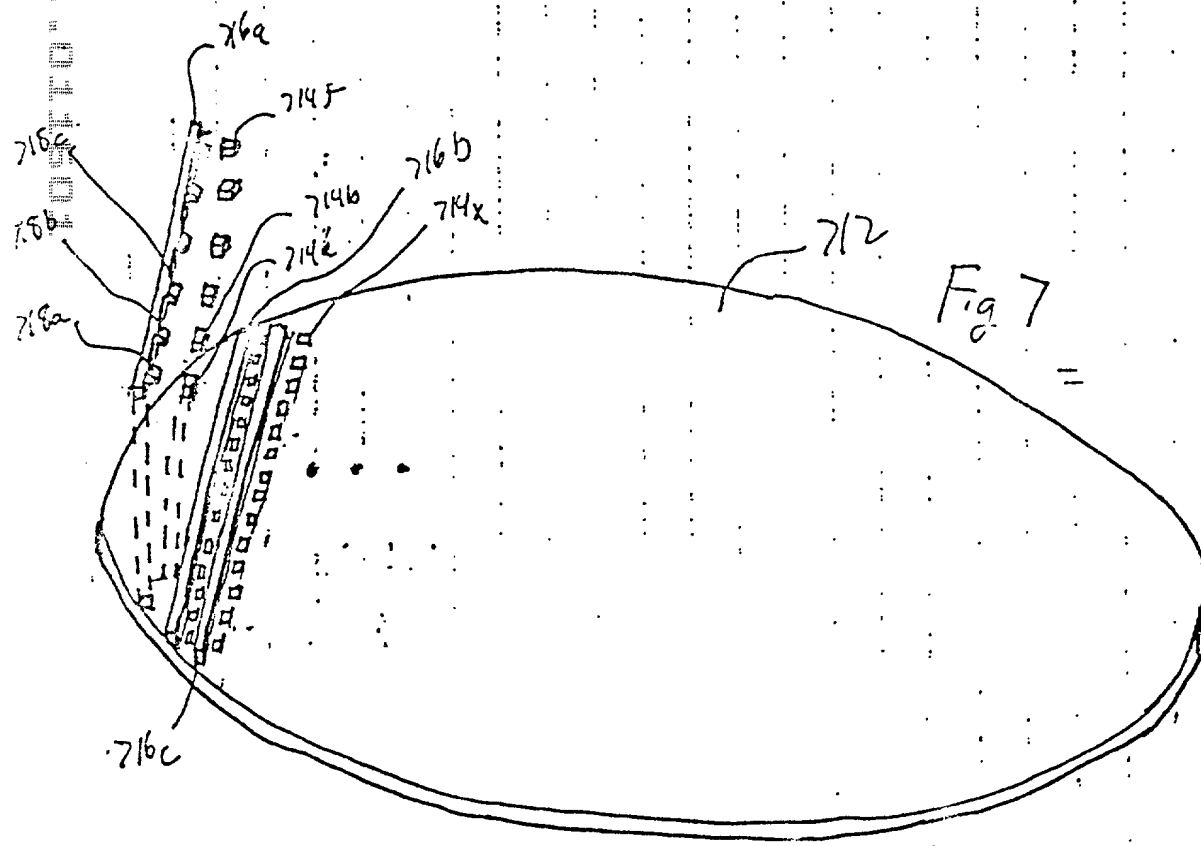


Fig 6

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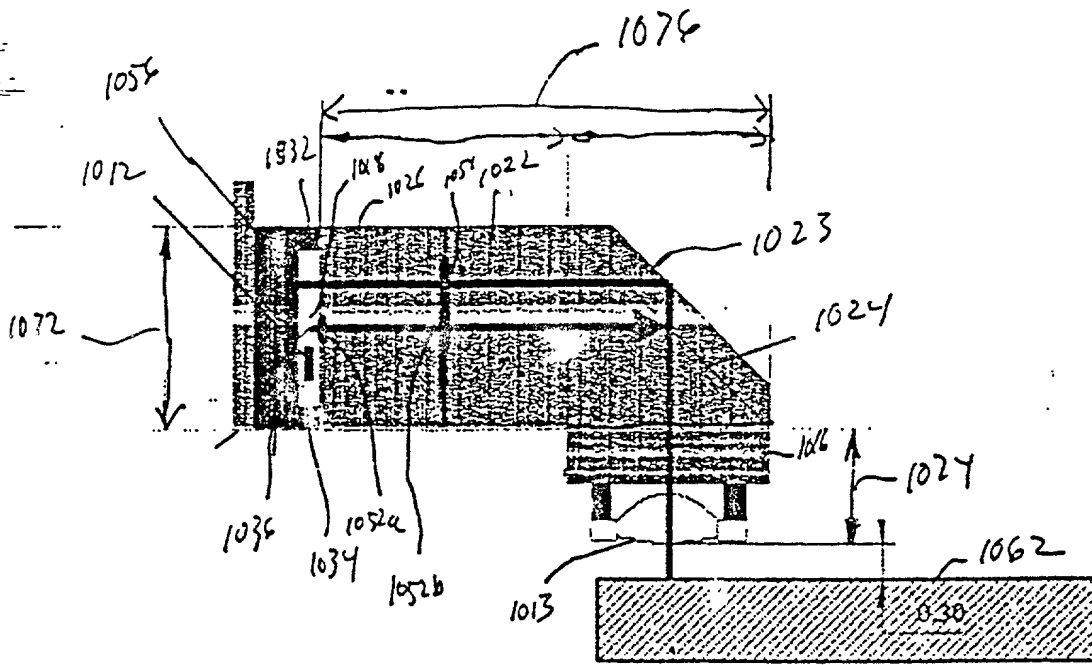


Fig 10

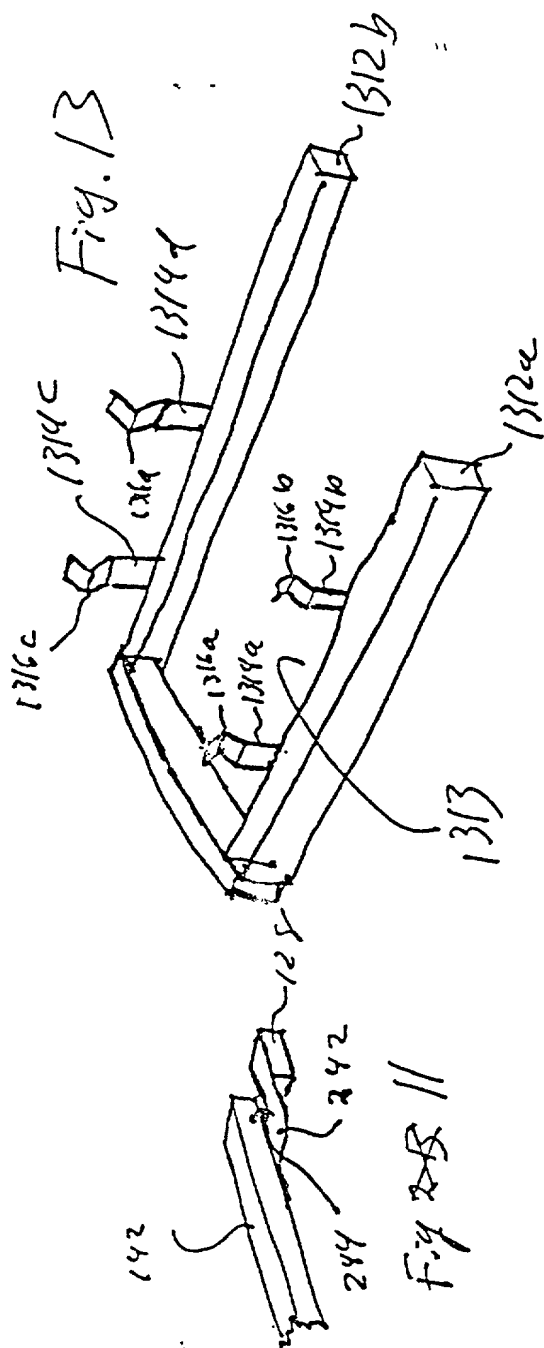
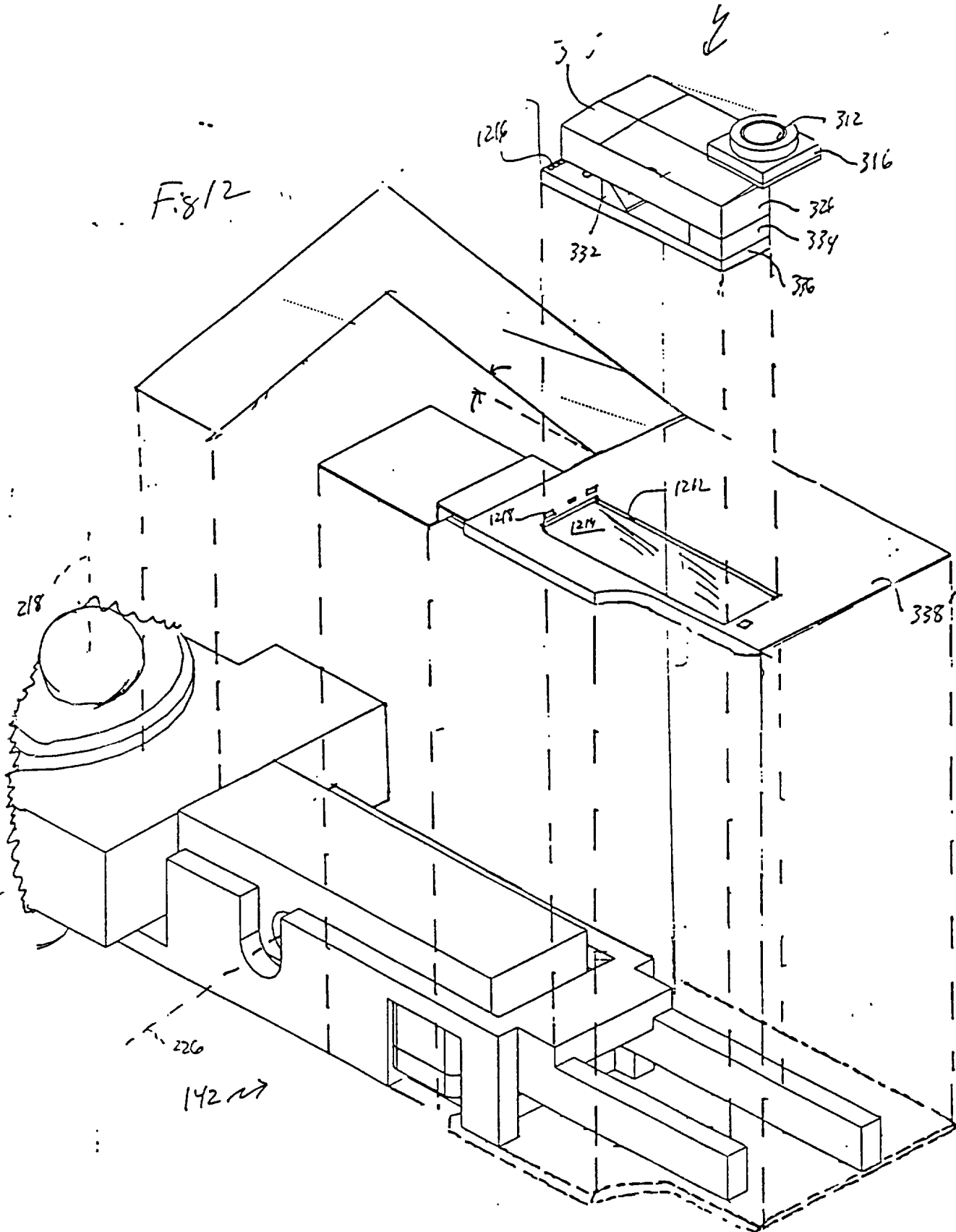
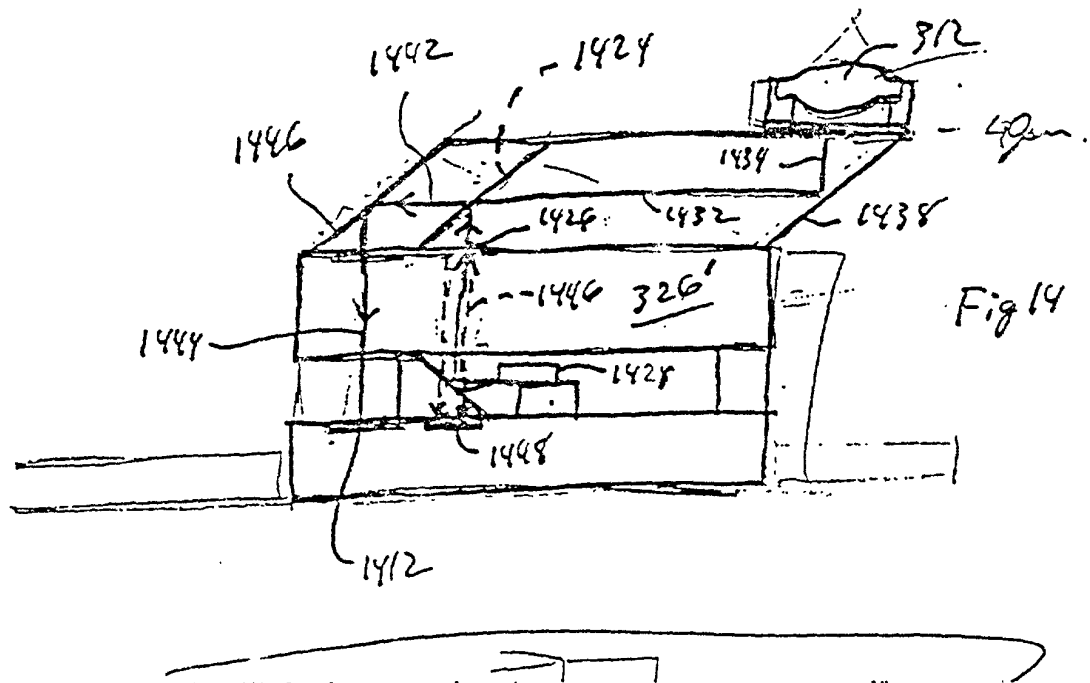
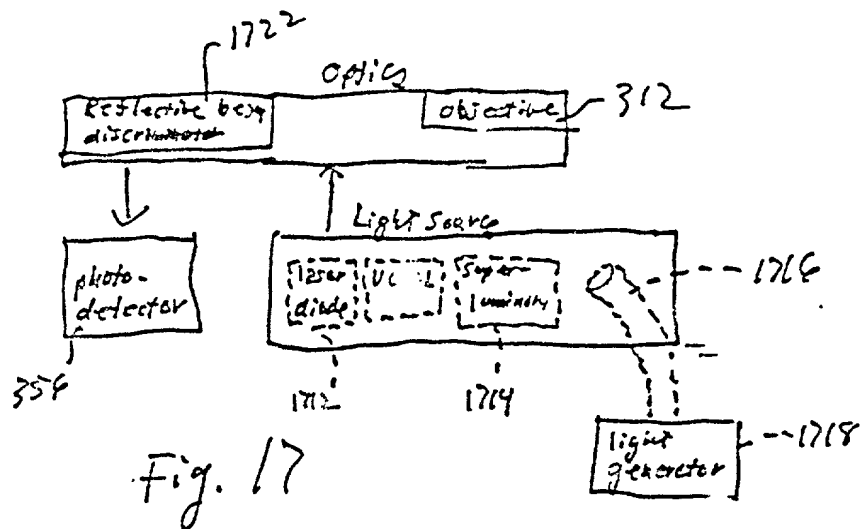
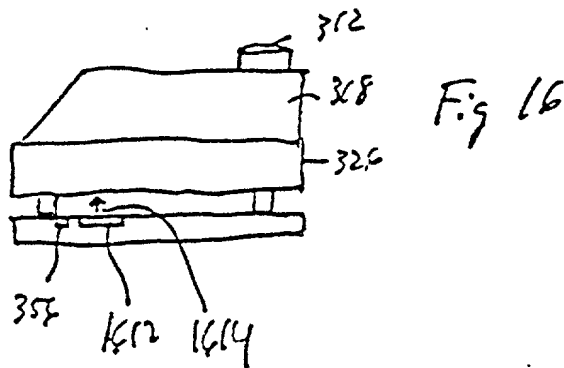
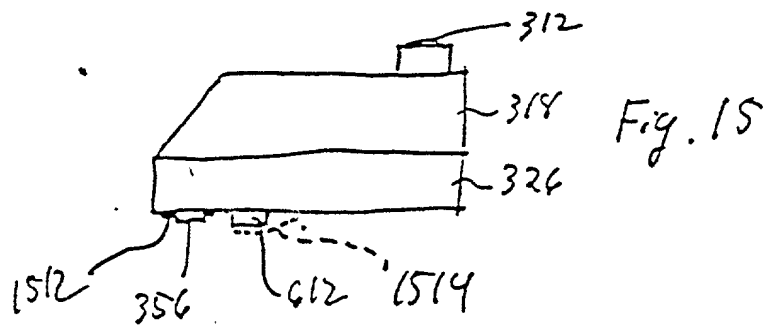


Fig 12

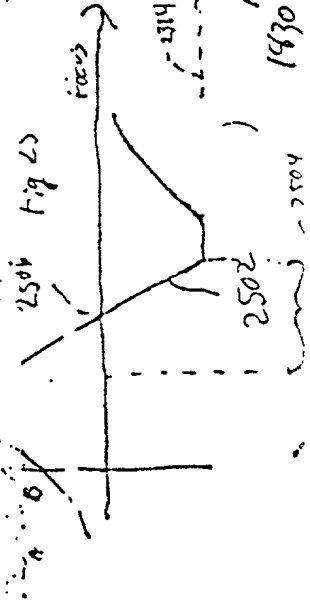
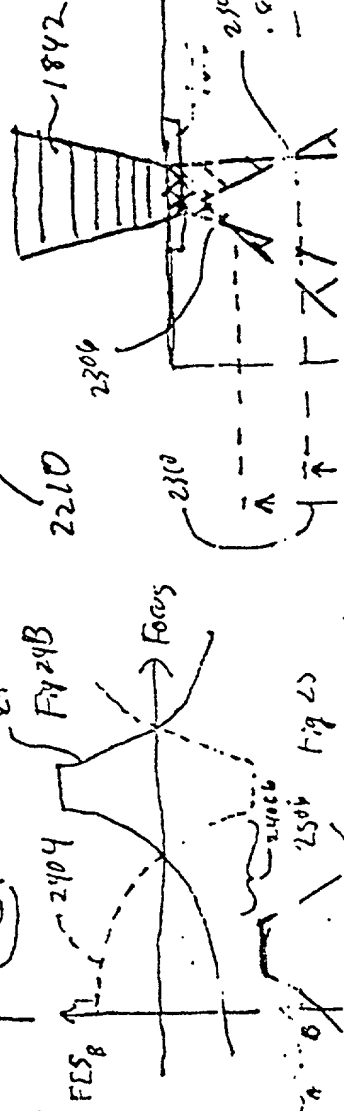
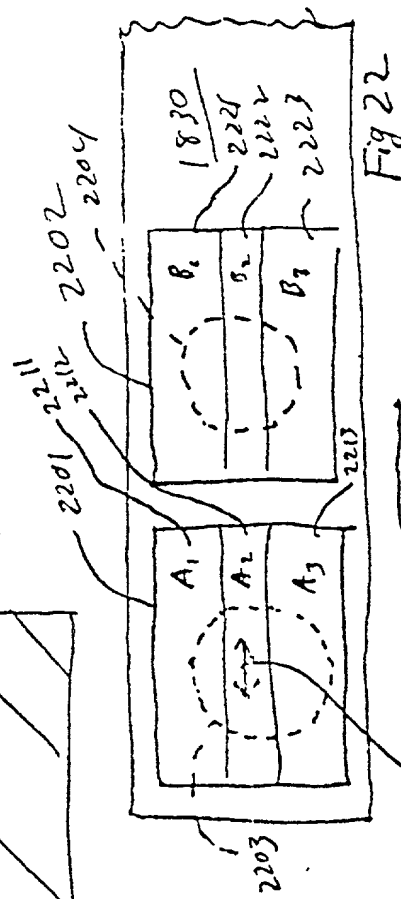
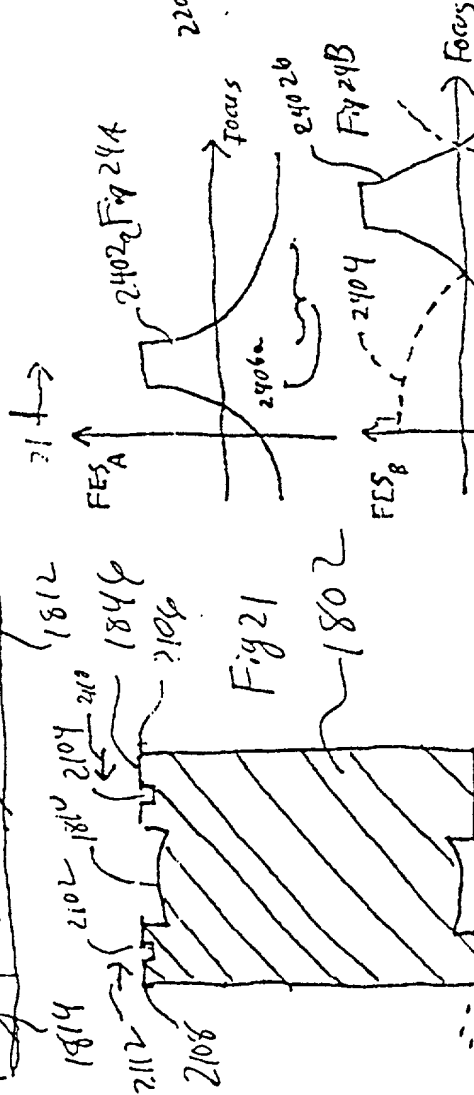
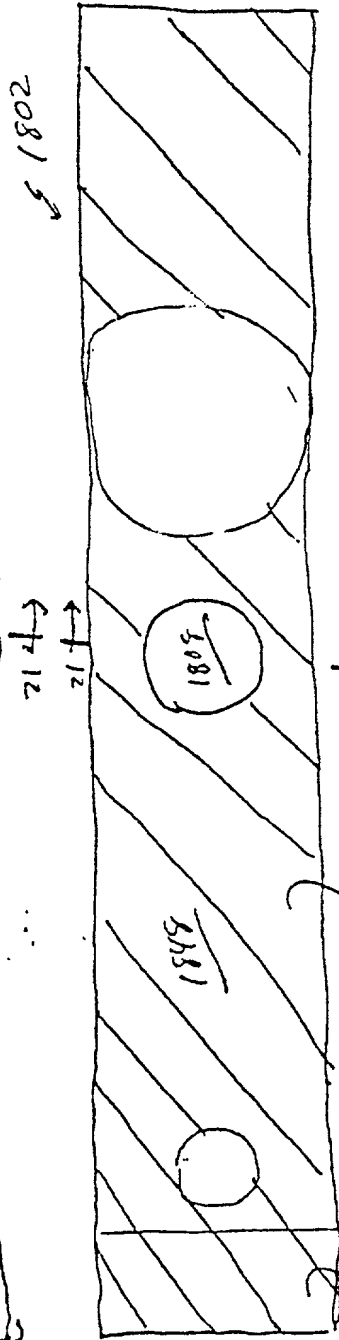
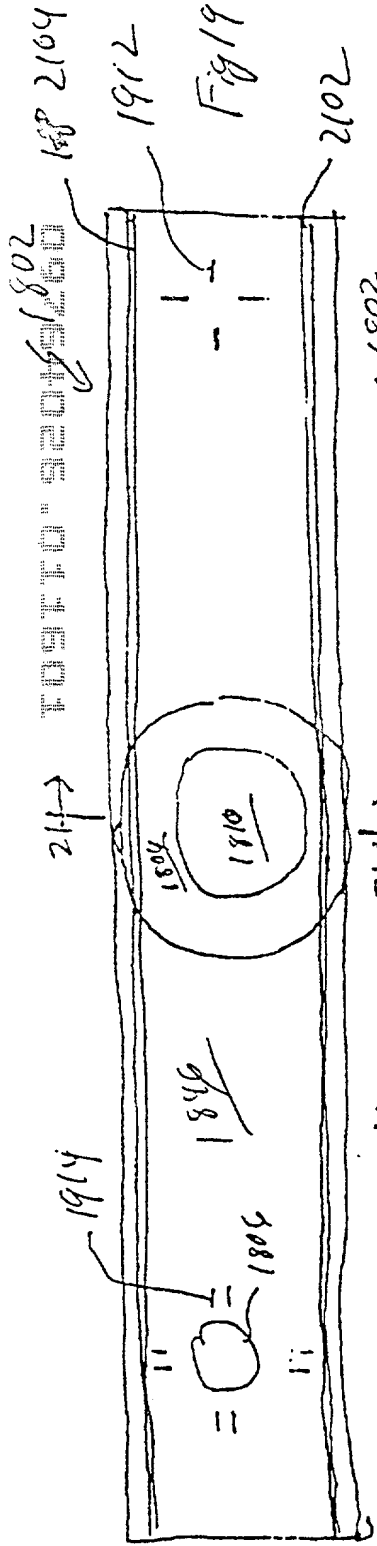


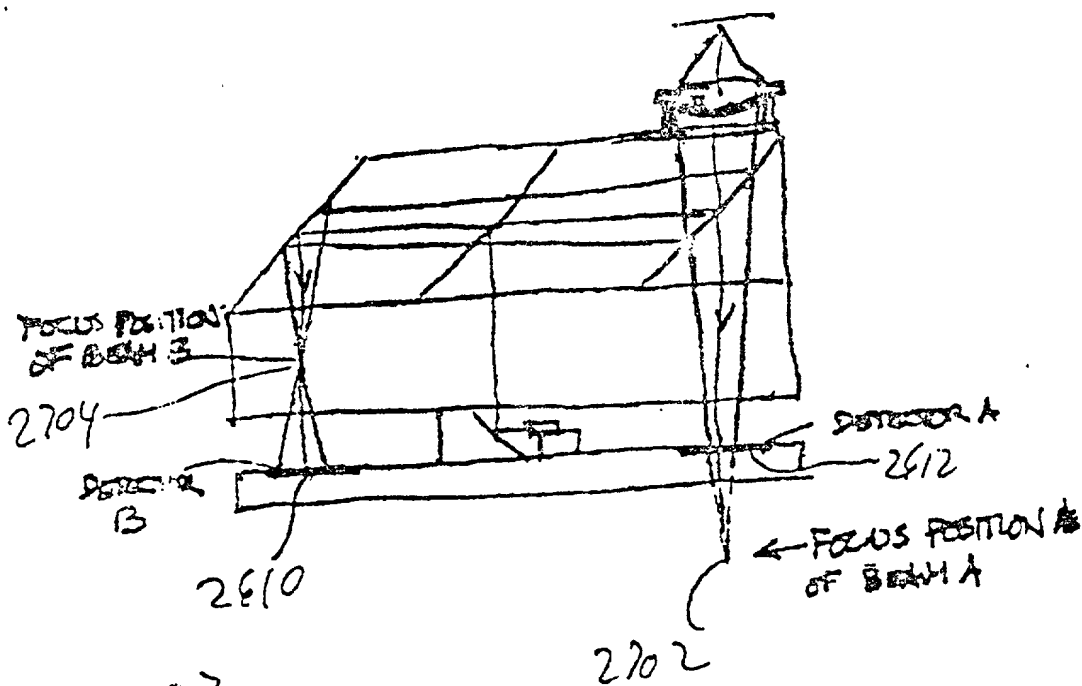
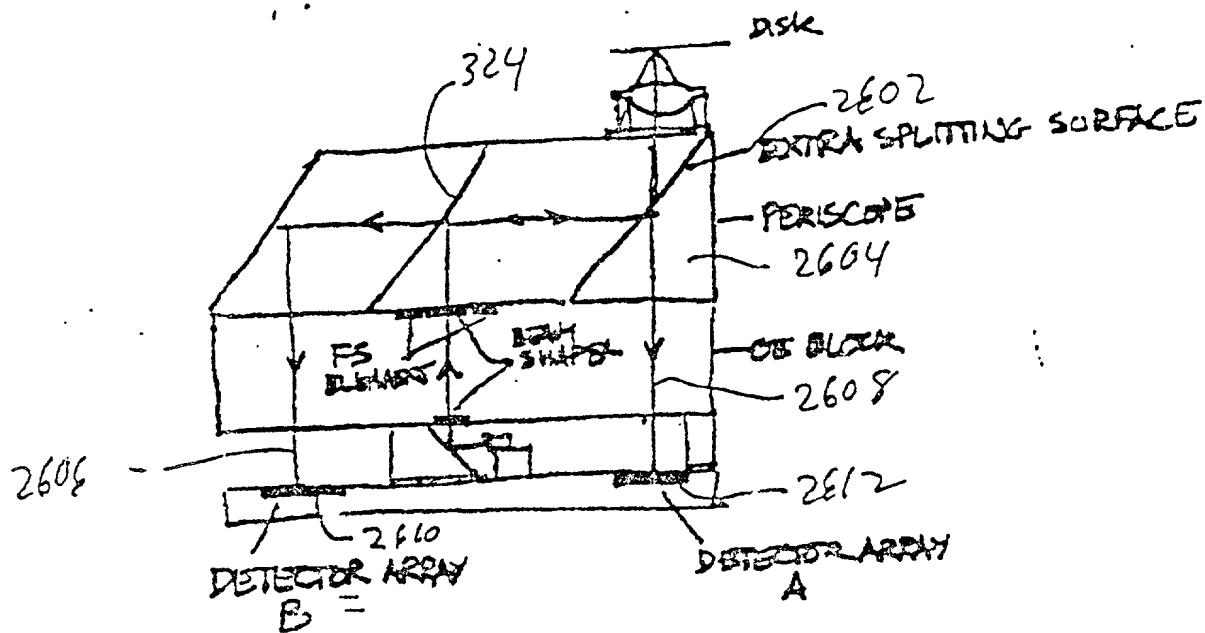
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SCANNED # 12

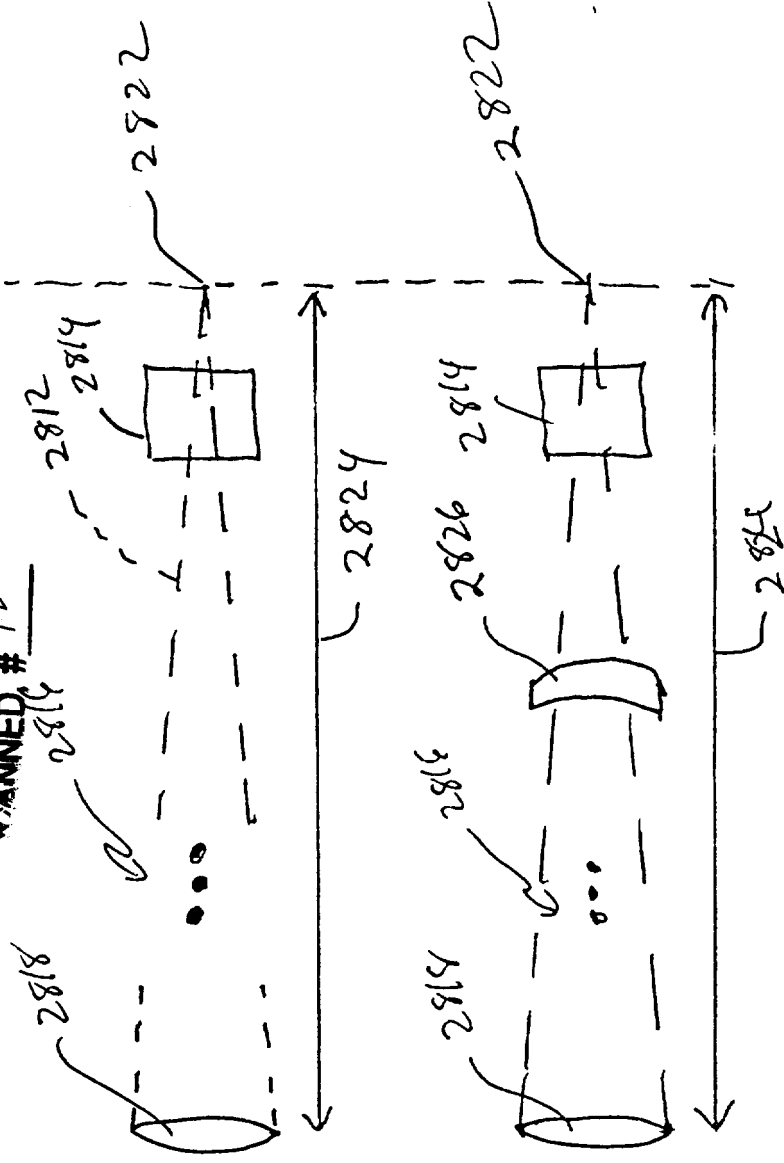


Fig 28A

Fig 28B

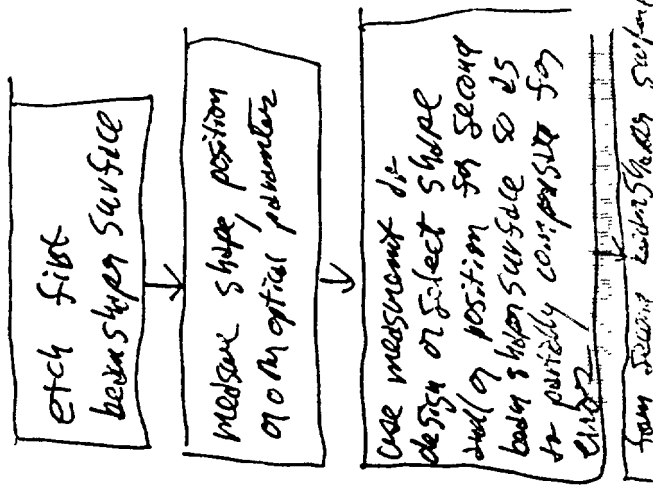


Fig 29

from scanning with 500nm surface

BEAM SHAPER EQUATION

$$C_{20} := -0.39159485$$

$$C_{02} := 1.93044042$$

$$C_{40} := 0.33426195$$

$$C_{22} := -10.209495$$

$$C_{04} := -6.7032532$$

SURFACE 1

$$\text{Sag}(X, Y) := C_{20} \cdot X^2 + C_{02} \cdot Y^2 + C_{40} \cdot X^4 + C_{22} \cdot X^2 \cdot Y^2 + C_{04} \cdot Y^4$$

$$Y := 0, 0.01 \dots 0.086$$

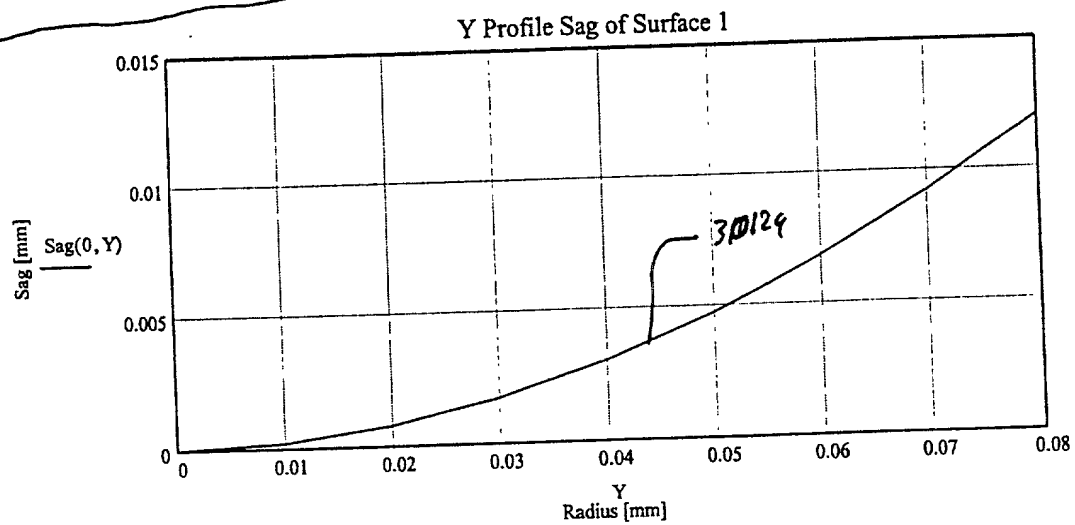


Fig 30A

$$X := 0, 0.01 \dots 0.086$$

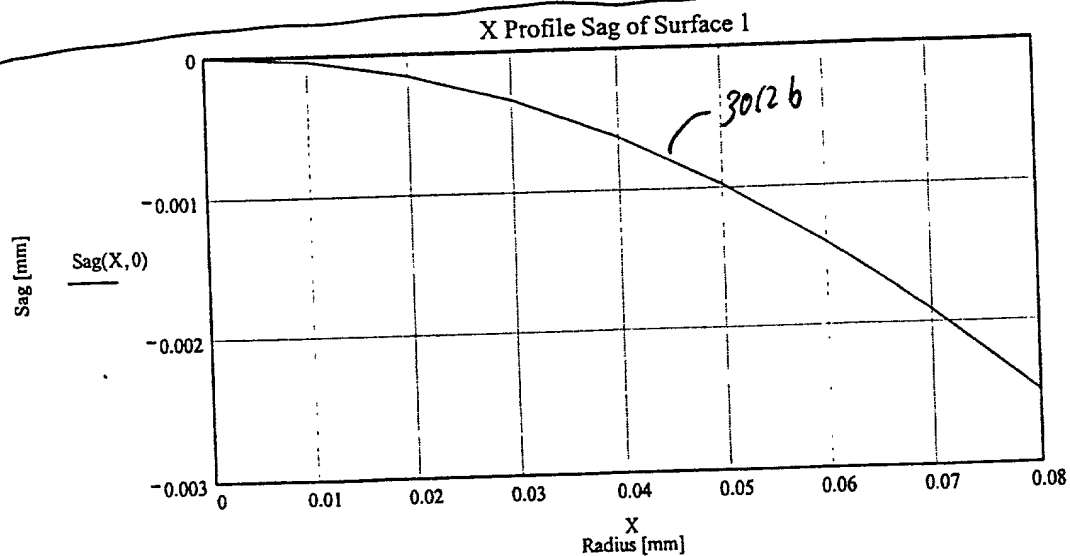


Fig. 30B

$$C_{20} := -0.052783359$$

SURFACE 2

$$C_{02} := 0.63270121$$

$$C_{40} := 0.034762591$$

$$C_{22} := -0.91998271$$

$$C_{04} := 1.7905847$$

$$\text{Sag}(X, Y) := C_{20} \cdot X^2 + C_{02} \cdot Y^2 + C_{40} \cdot X^4 + C_{22} \cdot X^2 \cdot Y^2 + C_{04} \cdot Y^4$$

$$Y := 0, 0.01 \dots 0.130$$

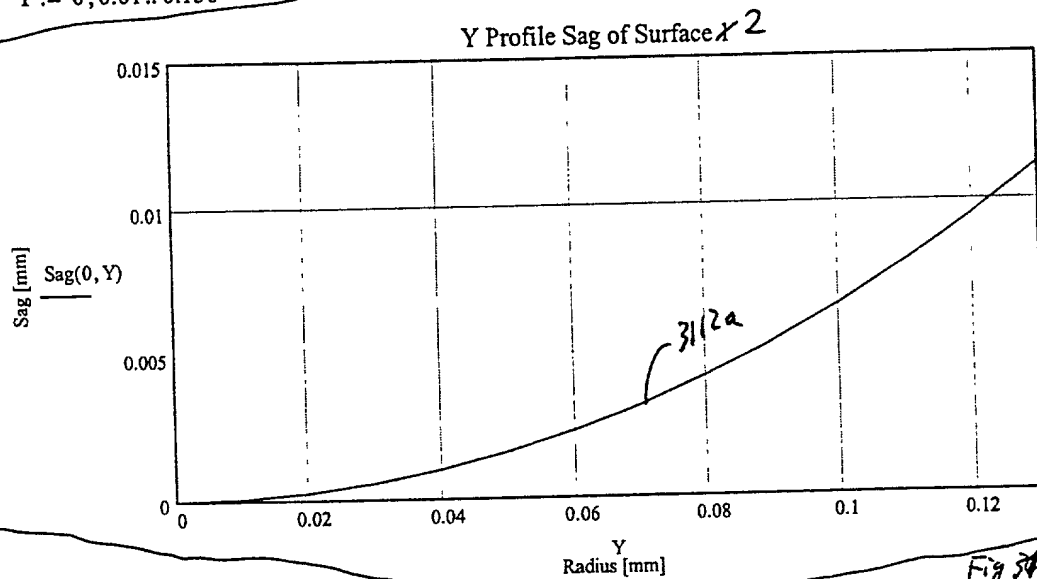


Fig 3A

$$X := 0, 0.01 \dots 0.130$$

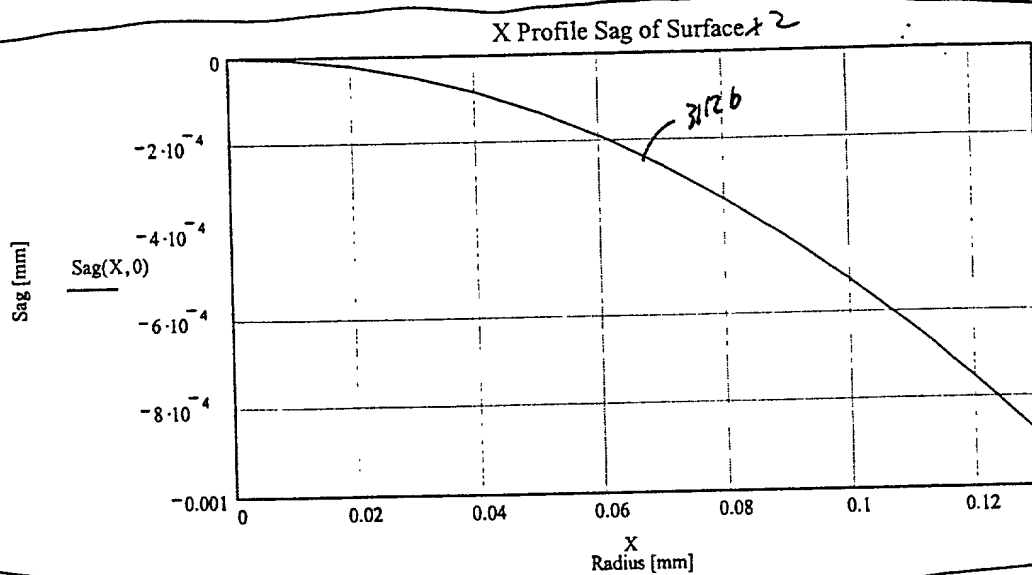


Fig 3B

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Example of Compensating error in the 1st surface by change in the 2nd surface

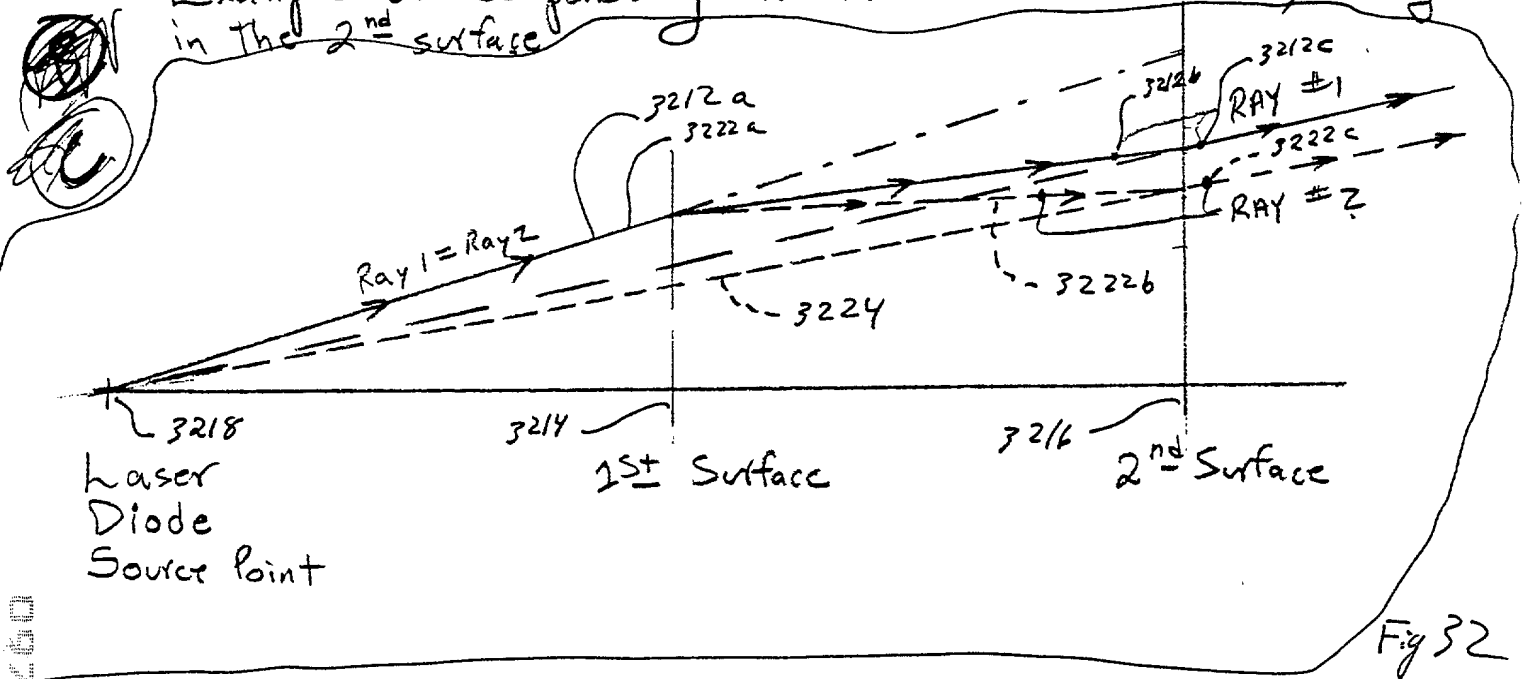


Fig 32

RAY #1 : Perfect Refraction at 1st Surface
 Perfect Refraction at 2nd Surface
 Source point unchanged

RAY #2 : Imperfect Refraction at 1st Surface.
 Ray 2 deviates more than Ray 1.

Compensate with imperfect refraction at 2nd Surface. Ray 2 deviated such that the
 Source point is unchanged

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